

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|---|------------------|---------|------------------|
| S1 | 2 | "20050123008" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/14 10:17 |
| S3 | 39 | S2 and (tun\$4 near3 laser) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/14 10:19 |
| S2 | 103 | ((Daiber near2 Andrew) or (Rice near3 Mark) or (Batra near3 Rajesh) or (Koller near3 Ken)).in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/14 10:19 |
| S6 | 1 | S2 and (tun\$4 near3 laser) and temperature and filter and (control\$4) and matrix | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/14 10:21 |
| S7 | 11 | ("20020126345" "20020176473" "20030007540" "20030012237" "20030016706" "20030033819" "5594746" "5761234" "6359918" "6600760").PN. OR ("6667998").URPN. | US-PGPUB; USPAT; USOCR | AND | ON | 2005/12/14 10:22 |
| S4 | 34 | S2 and (tun\$4 near3 laser) and temperature and filter and control\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/14 10:23 |
| S5 | 2 | S2 and (tun\$4 near3 laser) and temperature and filter and (control\$4 near5 linea\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/14 10:26 |
| S9 | 21 | S2 and (tun\$4 near3 laser) and temperature and filter and (control\$4 near5 error near4 signal) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/14 11:23 |
| S8 | 23 | S2 and (tun\$4 near3 laser) and temperature and filter and (control\$4 near5 error) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/14 11:23 |
| S10 | 14 | S2 and (tun\$4 near3 laser) and (temperature with filter) and (control\$4 near5 error near4 signal) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/14 11:24 |
| S13 | 1 | matrix and (tun\$4 near3 laser) and (temperature with filter near4 tun\$4) and (control\$4 near5 error near4 signal) and S2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/14 11:28 |

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|-----|-----|--|---|-----|----|------------------|
| S12 | 1 | matrix and (tun\$4 near3 laser) and (temperature with filter near4 tun\$4) and (control\$4 near5 error near4 signal) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/14 11:28 |
| S15 | 79 | (tun\$4 near3 laser) and (temperature AND filter near4 tun\$4) and (control\$4 near5 error near4 signal) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/14 11:37 |
| S14 | 21 | S2 and (tun\$4 near3 laser) and (temperature AND filter near4 tun\$4) and (control\$4 near5 error near4 signal) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/14 11:37 |
| S11 | 8 | S2 and (tun\$4 near3 laser) and (temperature with filter near4 tun\$4) and (control\$4 near5 error near4 signal) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/14 11:37 |
| S16 | 18 | (tun\$4 near3 laser) and (temperature SAME (filter near4 tun\$4)) and (control\$4 near5 error near4 signal) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 10:46 |
| L4 | 29 | 2 and matrix | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 10:50 |
| L3 | 17 | 1 and matrix | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 10:50 |
| L2 | 391 | (temperature with filter near4 tun\$4) and control\$4 and (temperature near5 (control\$4 or controllable)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 10:51 |
| L1 | 106 | (temperature with filter near4 tun\$4) and control\$4 and (temperature near5 (control\$4 or controllable)) and (laser near3 tun\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 10:51 |
| L8 | 0 | (temperature with filter near4 tun\$4) and control\$4 and (temperature near5 (control\$4 or controllable)) and (error near3 signal) and matrix | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 10:52 |
| L7 | 1 | ((error near3 signal) with (temperature with filter near4 tun\$4)) and control\$4 and ((error near3 signal) with (temperature near5 (control\$4 or controllable))) and (laser near3 tun\$4) and matrix | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 10:52 |

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| L5 | 120 | (temperature with filter near4 tun\$4) and control\$4 and (temperature near5 (control\$4 or controllable)) and (error near3 signal) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 10:52 |
| L11 | 9 | ((error near3 signal) same (temperature with filter)) and control\$4 and ((error near3 signal) same (temperature near5 (control\$4 or controllable))) and (laser near3 tun\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 10:54 |
| L10 | 1 | ((error near3 signal) same (temperature with filter near4 tun\$4)) and control\$4 and ((error near3 signal) same (temperature near5 (control\$4 or controllable))) and (laser near3 tun\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 10:54 |
| L12 | 25 | ((error near3 signal) same (temperature with filter)) and control\$4 and ((error near3 signal) same (temperature near5 (control\$4 or controllable))) and (tun\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 10:55 |
| L6 | 1 | ((error near3 signal) with (temperature with filter near4 tun\$4)) and control\$4 and ((error near3 signal) with (temperature near5 (control\$4 or controllable))) and (laser near3 tun\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 10:56 |
| L15 | 3 | ((error near3 signal) with (temperature near3 filter)) and control\$4 and ((error near3 signal) with (temperature near5 (control\$4 or controllable))) and (laser near3 tun\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 10:58 |
| L14 | 7 | ((error near3 signal) with (temperature with filter)) and control\$4 and ((error near3 signal) with (temperature near5 (control\$4 or controllable))) and (laser near3 tun\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 10:58 |
| L13 | 12 | ((error near3 signal) same (temperature with filter)) and control\$4 and ((error near3 signal) same (temperature near5 (control\$4 or controllable))) and (tun\$4 with laser) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 10:58 |
| L16 | 4 | ((error near3 signal) same (temperature near3 filter)) and control\$4 and ((error near3 signal) same (temperature near5 (control\$4 or controllable))) and (tun\$4 with laser) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 10:59 |
| L17 | 40 | (ECDL or (external near2 cavity near2 diode near laser)) and (TEC or ((thermal near2 electrical near3 cooler) or (Thermal-electrical near2 cooler))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 11:01 |
| L18 | 33 | 17 and filter and temperature and tun\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 11:02 |

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| L19 | 18 | 17 and (filter with temperature) and tun\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 11:03 |
| L20 | 18 | 17 and (filter with temperature) and (tun\$4 near4 laser) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 11:09 |
| L21 | 18 | (ECDL or (external near2 cavity near2 diode near laser)) and (TEC or ((thermal near2 electrical near3 cooler) or (Thermal-electrical near2 cooler)))and (filter with temperature) and (tun\$4 near4 laser) and control\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 11:10 |
| L22 | 16 | (ECDL or (external near2 cavity near2 diode near laser)) and (TEC or ((thermal near2 electrical near3 cooler) or (Thermal-electrical near2 cooler)))and (filter with temperature) and (tun\$4 near4 laser) and (control\$4 same (error near3 signal)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 11:16 |
| L23 | 16 | (ECDL or (external near2 cavity near2 diode near laser)) and (TEC or ((thermal near2 electrical near3 cooler) or (Thermal-electrical near2 cooler)))and (filter with temperature) and (tun\$4 near4 laser) and (control\$4 same (error near3 signal)) and (temperature near4 (control\$4 or controllable)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 11:51 |
| L24 | 1 | (ECDL or (external near2 cavity near2 diode near laser)) and (TEC or ((thermal near2 electrical near3 cooler) or (Thermal-electrical near2 cooler)))and (filter with temperature) and (tun\$4 near4 laser) and (control\$4 same (error near3 signal)) and (temperature near4 (control\$4 or controllable)) and matrix | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 12:06 |
| L26 | 8 | (ECDL or (external near2 cavity near2 diode near laser)) and (TEC or ((thermal near2 electrical near3 cooler) or (Thermal-electrical near2 cooler)))and (filter near4 temperature) and (tun\$4 near4 laser) and (control\$4 same (error near3 signal)) and (temperature near4 (control\$4 or controllable)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 12:08 |
| L25 | 1 | (ECDL or (external near2 cavity near2 diode near laser)) and (TEC or ((thermal near2 electrical near3 cooler) or (Thermal-electrical near2 cooler)))and (filter near4 temperature) and (tun\$4 near4 laser) and (control\$4 same (error near3 signal)) and (temperature near4 (control\$4 or controllable)) and matrix | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 12:10 |
| L29 | 2 | (ECDL or (external near2 cavity near2 diode near laser)) and (TEC or ((thermal near2 electrical near3 cooler) or (Thermal-electrical near2 cooler))) and matrix | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 12:11 |
| L28 | 1 | (ECDL or (external near2 cavity near2 diode near laser)) and (TEC or ((thermal near2 electrical near3 cooler) or (Thermal-electrical near2 cooler))) and (control\$4 same (error near3 signal)) and matrix | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 12:11 |
| L30 | 1 | (ECDL or (external near2 cavity near2 diode near laser)) and (TEC or ((thermal near2 electrical near3 cooler) or (Thermal-electrical near2 cooler))) and (filter near4 temperature) and (tun\$4 near4 laser) and (control\$4 same (error near3 signal)) and (temperature near4 (control\$4 or controllable)) and coupler | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 12:12 |

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|-----|---|---|---|-----|----|------------------|
| L27 | 1 | (ECDL or (external near2 cavity near2 diode near laser)) and (TEC or ((thermal near2 electrical near3 cooler) or (Thermal-electrical near2 cooler))) and (filter near4 temperature) and (tun\$4 near4 laser) and (control\$4 same (error near3 signal)) and (temperature near4 (control\$4 or controllable)) and matrix | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/16 12:12 |
|-----|---|---|---|-----|----|------------------|


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